A.2.33 AOC 18

Description

AOC 18 consists of Tank Basin 2, which is located in the Main Yard immediately north of Maurer Road. This tank basin was identified as an AOC based on an EPA site visit in August 1994. Tank 2 is 114.5 feet in diameter, and the basin, which is nearly circular, is approximately 200 feet in diameter. A review of historical aerial photographs did not show any potential releases within the tank basin. Tank 2 was dismantled in September 1998.

As shown on Figure A.2.29 and summarized on Table A.2.29, four borings, four soil samples, and three groundwater samples have been used to characterize AOC 18. Additionally, relevant data from the PAOC investigations and from adjacent SWMUs and AOCs are shown on Table A.2.29 for delineation purposes as appropriate.

Soils

As shown on Table A.2.29, during the 1st Phase Soils Investigation, four borings (PZ0014, SB0107, SB0108 and SB0109) were installed to provide additional data for source characterization of AOC 18. One sample was collected from each of the four borings from the fill material within AOC 18 at depths of four feet or less, and analyzed for VOCs and SVOCs. Two of the four samples exhibited black staining or other evidence of petroleum impacts, and one of these samples exhibited PID readings of 80 ppm. Only one sample (SB0109) contained a VOC (benzenethiol at 16D mg/kg) at concentrations above the soil delineation criteria. None of the four soil samples contained SVOCs above the soil delineation criteria.

One boring (S0885) was installed within AOC 18 in October 2002 as part of the PAOC 8 investigation at the approximate location shown on Figure A.2.29. One soil sample (S0885F1) was collected from this boring in the native material (clay) at a depth of 10 to 10.5 feet bgs and analyzed for VOCs, SVOCs and metals. This sample exhibited petroleum odor at one to five feet bgs, and exhibited evidence of petroleum impacts, including elevated PID readings of 72 ppm at 10 feet bgs. However, no VOCs, SVOCs or metals were detected in this sample above the soil delineation criteria. Therefore, it does not appear that AOC 18 is a continuing source to groundwater. Furthermore, AOC 18 has been vertically delineated.

As discussed further in Section 6 of the RFI Report, lateral delineation of selected COCs has been completed on a site-wide basis for each Yard. The delineation of these COCs is depicted graphically on the figures provided in Section 6.

Groundwater

Four groundwater samples (HP0091, H0220, H0 130 and H0131) were collected and analyzed for Skinner's List VOCs and SVOCs. None of the samples contained COCs

above the groundwater delineation criteria except for the sample from H0220 that was collected in the vicinity of AOC 18 as part of the 1st-Phase Groundwater Investigation Addendum in the Spring of 1999. This sample contained benzene (4 µg/L) above the applicable delineation criterion. A more detailed discussion of groundwater quality in the area of AOC 18 can be found in Section 8 of the RFI Report.

Summary

In summary, only one VOC (benzenethiol) was detected in one soil sample above the applicable delineation criterion. Benzene (4 µg/L) was also detected above the applicable delineation criterion in one of four groundwater samples from AOC 18. Therefore, AOC 18 will be included for further evaluation in the CMS.